ALBERTA NATURAL HERITAGE INFORMATION CENTRE
TRACKING AND WATCH LISTS--
VASCULAR PLANTS, MOSSES, LIVERWORTS AND HORNWORTS

Compiled by Joyce Gould
February, 2001

Alberta
ENVIRONMENT

NATURAL HERITAGE INFORMATION CENTRE
ALBERTA

Front page: soapweed (*Yucca glauca* Nutt.)

Soapweed (*Yucca glauca* Nutt.) is rare in Alberta and in Canada and has been ranked S1 by the Alberta Natural Heritage Information Centre and 'threatened' by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC 2000. The extent of the natural populations in Canada, is two, both of which are in the dry mixedgrass subregion of Alberta. This species has an obligate relationship with the yucca moth, *Tegeticula yuccasella*. Soapweek requires the moth for pollination, the moth needs the soapweed for growth of larvae. Current research on soapweed and yucca moth indicate that the Alberta populations are unique when compared to populations at the centre of the range. The cause of this however, is unknown. Limiting factors to the growth of soapweed in Alberta include low fruit production due to pollen limitation, asyncronous flowering, habitat fragmentation, herbivory, wind and exploitation by non-pollinators. Management of soapweed, yucca moth and their habitat can only be accomplished through the cooperative efforts of range managers, the government

Text summarized from Hurlburt 2001 (draft). Illustration by John Maywood.

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Pub. No: T/576
ISBN: 0-7785-1442-0 Printed Edition
ISBN: 0-7785-1443-9 On-line Edition
Web Site: http://www.gov.ab.ca/env/parks/anhic/anhic.html

This publication may be cited as:

Gould, J. 2001 Alberta Natural Heritage Information Centre Tracking and Watch Lists—Vascular Plants, Mosses, Liverworts and Hornworts. Alberta Environment, Edmonton, Alberta.

ALBERTA NATURAL HERITAGE INFORMATION CENTRE
TRACKING AND WATCH LISTS—VASCULAR PLANTS, MOSSES, LIVERWORTS AND HORNWORTS

Compiled Joyce Gould
February, 2001

This list contains the tracking and watch lists for both vascular plants, mosses, liverworts and hornworts as developed by the Alberta Natural Heritage Information Centre (ANHIC), Alberta Environment. The addition of liverworts and hornworts to the list is relatively new and the ranks for these groups should be viewed as preliminary in nature. We encourage submission of locational information for any of the taxa on either the tracking or watch lists. A Rare Native Plant Report Form is attached for your convenience.

Background

The ANHIC was initiated as a joint project of The Nature Conservancy, Canadian Heritage, Alberta Region and Alberta Environmental Protection. It is housed within the Parks and Protected Areas Division of Alberta Environment. The ANHIC has established both formal and informal links with organizations and individuals with expertise and information about plants in Alberta. The Devonian Botanic Garden of the University of Alberta is an affiliate.

The purpose of the Centre is to collect, evaluate and make available information on the elements of native biodiversity of Alberta–plants, animals, natural communities and landscapes. This is done in part through the production of tracking and watch lists.

Tracking and Watch Lists

Tracking lists include elements of high priority because they are rare or of conservation concern in some other way. They are most commonly ranked S1, S2 and occasionally S3 (see below for an explanation of ranking). Data for those species on the tracking lists are entered into a series of data files and linked to a geographic information system. Watch lists include elements for which we want to collect more information but for which data is compiled rather than processed to the fullest extent. The tracking and watch lists are under constant review and revision based on available data and will be updated and published on a periodic basis.

Information contained within previous publications on the rare vascular flora of the province (Argus and White 1978, Argus and Pryer 1990, Packer and Bradley 1984) has been incorporated into the ANHIC and updated. This was done using various sources of information including published and unpublished literature, field surveys, herbarium specimens, rare plant files and discussions with knowledgeable individuals. The same types of information were used to develop the tracking list for nonvasculars. The tracking and watch lists are organized by taxonomic group and then alphabetically by scientific name.

Ranks are reviewed yearly based on data contained within the ANHIC and therefore, information submitted to us by individuals is of great help. Several individuals have assisted in the production of the list through review of ranks and/or taxonomy and their assistance is gratefully acknowledged: Dr. Peter Achuff (vasculars and non-vasculars), Dr. Susan Aiken (*Festuca*), Lorna Allen (vasculars), Dr. George Argus (*Salix*), Dr. John Bain (*Erigeron*, *Packera*, *Senecio*), Dr. Peter Ball, (*Carex*), Dr. Randy Bayer (*Antennaria*), Dr. René Belland (non-vasculars), Cheryl Bradley (vasculars), Dan Brunton, (*Isoetes*, ferns), Dana Bush (vasculars), Donna Cherniawsky (vasculars), Beth Cornish (vasculars and non-vasculars), Patsy Cotterill (vasculars), Dr. Bill Crins (vasculars), Stephen Darbyshire (Poaceae), Dr. Bruce Ford (*Carex*), Joanne Golden, (*Packera*, *Senecio*), Dr. Graham Griffiths (vasculars), Roxanne Hastings (non-vasculars), Julie Hrapko (vasculars), Derek Johnson (vasculars and non-vasculars), Linda Kershaw (vasculars), Jane Lancaster (vasculars), Ian Macdonald (vasculars), Dr. Robert Naczi, (*Carex*), Dr. John Packer (vasculars), Ross Priddle (non-vasculars), Kathleen Pryer (*Gymnocarpium*), Dr. Dale Vitt (non-vasculars), Dr. Robert Soreng (Poaeceae), the late Dr. W. H. Wagner (*Botrychium*), Cliff Wallis (vasculars), Kathleen Wilkinson (vasculars) and Joan Williams (vasculars).

Species that are on the watch lists are typically taxa that have restricted distributions within Alberta but are common within their range. Information is collected to ascertain trends in populations. We may decide to move a species from the watch list to the tracking list if information suggests that the species be in decline. Please submit a Rare Native Plant Report Form for those taxa included on the watch lists.

Plants Requiring Further Information

In addition to the plants listed on the watch and tracking lists, we will be compiling information on the following species:

Calypso bulbosa (white form only)
Corallorhiza maculata f. *flavida* spotted coral-root (yellow form only)
Erigeron scotteri fleabane
Geranium viscosissimum f. *album* sticky purple geranium
Lilium philadelphicum var. *andinum* f. *immaculatum* yellow wood lily
Wolffia columbiana watermeal (large celled and small celled forms)

Comments and additional information on any of these species as well as those on the tracking and watch lists are welcomed.

Rank

Elements are evaluated and ranked on their status (globally and state/provincially) using a system developed by The Nature Conservancy which is in use throughout North America. Ranking is usually based primarily on the number of occurrences, since that is frequently the only information available. Information, such as population size and trend, life history and reproductive strategies, range and current threats is used when available. The ranks in Alberta are defined as:

RANK (G=global; S=Alberta)

G1	S1:	≤ 5 occurrences or only a few remaining individuals.
G2	S2:	6-20 occurrences or with many individuals in fewer occurrences.
G3	S3:	21-100 occurrences may be rare and local throughout its range, or in a restricted range (may be abundant in some locations or may be vulnerable to extirpation because of some factor of its biology).
G4	S4:	apparently secure under present conditions, typically >100 occurrences but may be fewer with many large populations; may be rare in parts of its range, especially peripherally.
G5	S5:	demonstrably secure under present conditions, > 100 occurrences, may be rare in parts of its range, especially peripherally.
GU	SU:	status uncertain often because of low search effort or cryptic nature of the element; possibly in peril, unrankable, more information needed.
GH	SH:	historically known, may be relocated in the future.

Other codes are:

E:	exotic species established, may be native to nearby regions
HYB:	hybrid taxon that is recurrent in the landscape
P:	potentially exists; may have occurred historically (but having not been persuasively documented)
Q:	taxonomic questions or problems
R:	reported but lacking sufficient documentation to accept or reject

RD:	report dubious
RF:	reported falsely
T_:	rank for a subspecific taxon
X:	believed to be extirpated
G? or S?:	not yet ranked
_?:	rank questionable

Nomenclatural Changes and Taxonomic Revisions

Changes in nomenclature or taxonomy may result in some confusion regarding the status of species. For example, *Carex rostrata* is on our tracking list. What was previously called *Carex rostrata* (eg. Moss 1983) is really *C. utriculata* (Griffiths 1989). *Carex utriculata* is a common plant of wetlands, *Carex rostrata* is also found in wetlands but appears to be less frequent.

Ongoing work, particularly the Flora of North America project, is resulting in taxonomic revision and nomenclatural changes to many of the vascular taxa occurring in Alberta. We are incorporating these changes into the database, and subsequently the tracking list, as information becomes available. The scientific name (SName) reflects these changes where possible.

Additions to the February 2001 lists

Vascular Plants
Brasenia schreberi
Poa laxa ssp. *banffiana*
Salix tumorii—SR

Mosses
Orthotrichum hallii
Grimmia reflexidens

Deletions from the February 2000 lists

Vascular plants
Artemisia borealis—drop, now included in *A. campestris*
Cryptantha macounii—drop, now included in *C. celosoides*
Cypripedium acaule—S3, watch
Gentiana glauca—S3, watch

Updates and Additional Information

We are asking for your help in keeping our databases as accurate and up-to-date as possible. If you discover any new occurrences of species on this list, please submit a Rare Native Plant Report Form. Feel free to notify us of any inaccuracies or discrepancies you may notice in our data, or if you have comments on the rank, and give us your suggestions on how our services could be more useful to you.

Information on the ANHIC is available through the Internet at http://www.gov.ab.ca/env/parks/anhic/anhic.html or by contacting:

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Tracking List: Vascular Plants

Scientific Name	Common Name	S Rank	GRank	Code
Adenocaulon bicolor	pathfinder	S2S3	G5?	PDAST06010
Adiantum aleuticum		S2	G5?	PPADI030Q0
Agoseris lackschewitzii	pink false dandelion	S2	G4	PDAST090C0
Agropyron x brevifolium		S?	HYB	PMPOA030Q0
Agrostis exarata	spike redtop	S2	G5	PMPOA040D0
Agrostis humilis	low bent grass	S1	G4	PMPOA040P0
Agrostis mertensii	northern bent grass	S2	G5	PMPOA040T0
Agrostis thurberiana	Thurber's bent grass	S2	G5	PMPOA04160
Allium geyeri	Geyer's onion	S2	G4G5	PMLIL02100
Alopecurus alpinus	alpine foxtail	S2	G5	PMPOA07020
Amaranthus californicus	Californian amaranth	S1	G4	PDAMA040A0
Ambrosia acanthicarpa	bur ragweed	S2	G5	PDAST0C010
Anagallis minima	chaffweed	S1S2	G5	PDPRI01020
Anemone quinquefolia	wood anemone	S1	G5	PDRAN040L0
Antennaria aromatica	scented everlasting	S2	G4	PDAST0H0V0
Antennaria corymbosa	corymbose everlasting	S1	G5	PDAST0H070
Antennaria luzuloides	silvery everlasting	S1	G5	PDAST0H0C0
Antennaria monocephala	one-headed everlasting	S2	G4G5	PDAST0H0F0
Anthoxanthum monticola	alpine sweet grass	S2	G5	PMPOA35010
Aquilegia formosa	Sitka columbine	S2	G5	PDRAN050B0
Aquilegia jonesii	Jones' columbine	S2	G4	PDRAN050D0
Arabidopsis salsuginea	mouse-ear cress	S1	G4G5	PDBRA05020
Arabis lemmonii	Lemmon's rock cress	S2	G5	PDBRA06110
Arctagrostis arundinacea	polar grass	S1	G?	PMPOA0H020
Arenaria longipedunculata	sandwort	S1	G3Q	PDCAR040H0
Aristida purpurea var longiseta	red three-awn	S1	G5T5?	PMPOA0K0W1
Arnica amplexicaulis	stem-clasping arnica	S2	G4	PDAST0Q030
Arnica longifolia	long-leaved arnica	S2	G5	PDAST0Q0E0
Arnica parryi	nodding arnica	S2	G5	PDAST0Q0J0
Artemisia furcata var furcata	forked wormwood	S1	G4T?	PDAST0S0M2
Artemisia tilesii	Herriot's sagewort	S2	G5	PDAST0S1Q0
Artemisia tridentata	big sagebrush	S2	G5	PDAST0S1R0
Asclepias viridiflora	green milkweed	S1	G5	PDASC02260
Aster campestris	meadow aster	S2	G5	PDAST0T0F0
Aster eatonii	Eaton's aster	S2	G5	PDAST0T0X0
Aster pauciflorus	few-flowered aster	S1	G4	PDAST0T2B0

Aster umbellatus	flat-topped white aster	S2	G5	PDAST0T3G0
Aster x maccallae		S1S2	HYB	PDAST0T5G0
Astragalus bodinii	Bodin's milk vetch	S1	G4	PDFAB0F1C0
Astragalus kentrophyta var kentrophyta		S1S2	G5T4	PDFAB0F4J7
Astragalus lotiflorus	low milk vetch	S2	G5	PDFAB0F4Z0
Astragalus purshii	Pursh's milk vetch	S2	G5	PDFAB0F7A0
Athyrium alpestre var americanum	alpine spleenwort	S1	G4G5	PPDRY02010
Atriplex canescens	saltbush	SU	G5	PDCHE04090
Atriplex powellii	Powell's saltbush	S1	G4	PDCHE041L0
Atriplex truncata	saltbush	S1	G5	PDCHE04230
Bacopa rotundifolia	water hyssop	S1	G5	PDSCR06080
Barbarea orthoceras	American winter cress	S2	G5	PDBRA0A010
Bidens frondosa	common beggarticks	S1	G5	PDAST180R0
Blysmus rufus	Red Bulrush	S1	G5	PMCYP0Q1C0
Boisduvalia glabella	smooth boisduvalia	S2	G5	PDONA01030
Bolboschoenus fluviatilis	river bulrush	S1	G5	PMCYP0Q0P0
Boschniakia rossica	ground-cone	S1	G5	PDORO01020
Botrychium ascendens	ascending grape fern	S1	G2G3	PPOPH010S0
Botrychium boreale	northern grape fern	S1	G?	PPOPH01230
Botrychium campestre	field grape fern	S1	G3	PPOPH010W0
Botrychium crenulatum		S1	G3	PPOPH010L0
Botrychium lanceolatum	lance-leaved grape fern	S2	G5	PPOPH01070
Botrychium michiganense		S1	G?	PPOPH01200
Botrychium minganense		S2S3	G4	PPOPH010R0
Botrychium multifidum var intermedium	leather grape fern	S2	G5T4?	PPOPH010B3
Botrychium paradoxum	paradoxical grape fern	S1	G2	PPOPH010J0
Botrychium pedunculosum		S1	G2?	PPOPH010T0
Botrychium pinnatum		S1	G4?	PPOPH010V0
Botrychium simplex	dwarf grape fern	S2	G5	PPOPH010E0
Botrychium spathulatum		S2	G3G4	PPOPH01140
Botrychium x watertonense		S1	HYB	PPOPH01160
Boykinia heucheriformis	telesonix	S2	G4	PDSAX04060
Brasenia schreberi	watershield	S1	G5	PDCAB01010
Braya humilis var maccallae	leafy braya	S1	G5T3?Q	PDBRA0D047
Braya humilis var porsildii		S1	G5T?Q	PDBRA0D048
Braya purpurascens	alpine braya	S1	G4G5Q	PDBRA0D090

Brickellia grandiflora	large-flowered brickellia	S2	G5	PDAST1H0L0
Bromus latiglumis	Canada brome	S1	G5	PMPOA151M0
Bromus vulgaris	woodland brome	S2S3	G5	PMPOA151L0
Calamagrostis lapponica	Lapland reed grass	S1	G5	PMPOA170N0
Calylophus serrulatus	shrubby evening-primrose	S2	G5	PDONA02040
Camassia quamash var quamash	blue camas	S2	G5T?	PMLIL0E047
Camissonia andina	upland evening-primrose	S1	G4	PDONA03010
Camissonia breviflora	taraxia	S1	G5	PDONA03060
Campanula uniflora	alpine harebell	S2	G4	PDCAM020Y0
Cardamine bellidifolia	alpine bitter cress	S2	G5	PDBRA0K020
Cardamine parviflora	small bitter cress	S1	G5	PDBRA0K0V0
Cardamine pratensis	meadow bitter cress	S1S2	G5	PDBRA0K0Z0
Cardamine umbellata	mountain cress	S2	G?	PDBRA0K140
Carex adusta	browned sedge	S1	G5	PMCYP03070
Carex aperta	open sedge	S1	G4	PMCYP030U0
Carex arcta	narrow sedge	S1	G5	PMCYP030X0
Carex backii	Back's sedge	SU	G4	PMCYP031F0
Carex bicolor		SU	G5	PMCYP031Q0
Carex capitata	capitate sedge	S2	G5	PMCYP032H0
Carex crawei	Crawe's sedge	S2	G5	PMCYP03360
Carex glacialis	glacier sedge	S2	G5	PMCYP03570
Carex heleonastes	Hudson Bay sedge	S2	G4	PMCYP035T0
Carex heteroneura var epapillosa	blackened sedge	S1	G5T?	PMCYP035X3
Carex hookerana	Hooker's sedge	S2	G4?	PMCYP03660
Carex houghtoniana	sand sedge	S2	G5	PMCYP03690
Carex hystericina	porcupine sedge	S1	G5	PMCYP036D0
Carex illota	small-headed sedge	S1	G4G5	PMCYP036F0
Carex incurviformis var incurviformis	seaside sedge	S2	G4G5T?	PMCYP036G2
Carex lachenalii	two-parted sedge	S2	G5	PMCYP031T0
Carex lacustris	lakeshore sedge	S2	G5	PMCYP036W0
Carex lenticularis var dolia	lens-fruited sedge	S1	G5T3Q	PMCYP037A3
Carex leptopoda		S1	G5	PMCYP037G0
Carex mertensii	purple sedge	S1	G5	PMCYP038E0
Carex misandra	nodding sedge	S1S2	G5	PMCYP038N0
Carex nebrascensis	Nebraska sedge	S2	G5	PMCYP03940
Carex oligosperma	few-fruited sedge	S1	G4	PMCYP039Q0
Carex parryana var parryana	Parry's sedge	S1S2	G4T4	PMCYP03A35
Carex paysonis	Payson's sedge	S1S2	G4	PMCYP03A80

Carex pedunculata		S1	G5	PMCYP03AA0
Carex petasata	pasture sedge	S1S2	G5	PMCYP03AE0
Carex petricosa	stone sedge	S2	G4	PMCYP03AF0
Carex platylepis	broad-scaled sedge	S1S2	G4?	PMCYP03AQ0
Carex podocarpa	alpine sedge	S2	G4G5	PMCYP03AV0
Carex preslii	Presl sedge	S2	G4	PMCYP03B30
Carex pseudocyperus	cyperus-like sedge	S2	G5	PMCYP03B70
Carex retrorsa	turned sedge	S2	G5	PMCYP03BJ0
Carex rostrata	beaked sedge	S2	G5	PMCYP03BP0
Carex saximontana		SU	G5	PMCYP03C20
Carex scoparia	broom sedge	S1	G5	PMCYP03C90
Carex supina	Weak Sedge	S1	G5	PMCYP03DB0
Carex tincta	tinged sedge	S1	G4G5	PMCYP03DQ0
Carex umbellata	umbellate sedge	S1	G5	PMCYP03E60
Carex vesicaria	blister sedge	S1	G5	PMCYP03EE0
Carex vulpinoidea	fox sedge	S2	G5	PMCYP03EN0
Castilleja cusickii	yellow paintbrush	S2S3	G4G5	PDSCR0D0Q0
Castilleja lutescens	stiff yellow paintbrush	S2S3	G4G5	PDSCR0D1Y0
Castilleja pallida		SU	G5	PDSCR0D2D0
Castilleja sessiliflora	downy paintbrush	S1	G5	PDSCR0D300
Cerastium brachypodum		S2	G5	PDCAR060Y0
Cheilanthes gracillima	lace fern	S1	G4G5	PPADI090B0
Chenopodium atrovirens	goosefoot	S1	G5	PDCHE09060
Chenopodium desiccatum	goosefoot	S1S2	G5	PDCHE090H0
Chenopodium incanum	goosefoot	S1	G5	PDCHE090T0
Chenopodium leptophyllum	narrow-leaved goosefoot	SU	G5	PDCHE090V0
Chenopodium subglabrum	smooth narrow-leaved goosefoot	S1	G3G4	PDCHE091G0
Chenopodium watsonii	Watson's goosefoot	S1	G5	PDCHE091K0
Cirsium scariosum	thistle	SU	G5	PDAST2E2Q0
Conimitella williamsii	conimitella	S2	G3?	PDSAX08010
Coreopsis tinctoria	common tickseed	S2	G5	PDAST2L0V0
Cornus unalaschkensis		S?	G5?	PDCOR010F0
Crepis atribarba	hawk's-beard	S2	G5	PDAST2R020
Crepis intermedia	intermediate hawk's-beard	S2	G5	PDAST2R090
Crepis occidentalis	small-flowered hawk's-beard	S2	G5	PDAST2R0E0
Cryptantha affinis		SU	G4	PDBOR0A020
Cryptantha minima	small cryptanthe	S1	G5	PDBOR0A1Y0
Cryptogramma stelleri	Steller's rock brake	S2	G5	PPADI0B020

Cuscuta gronovii	common dodder	S1	G5	PDCUS010T0
Cynoglossum virginianum var boreale	wild comfrey	S1	G5T4	PDBOR0B081
Cyperus schweinitzii	sand nut-grass	S2	G5	PMCYP06360
Cyperus squarrosus	awned nut-grass	S1	G5	PMCYP064B0
Cypripedium montanum	mountain lady's-slipper	S2	G4G5	PMORC0Q080
Cystopteris montana	mountain bladder fern	S2	G5	PPDRY07050
Danthonia spicata	poverty oat grass	S1S2	G5	PMPOA200A0
Deschampsia elongata	slender hair grass	S1	G5	PMPOA22080
Diphasiastrum sitchense	ground-fir	S2	G5	PPLYC01100
Douglasia montana	mountain dwarf-primula	S1	G4?	PDPRI04040
Downingia laeta	downingia	S1S2	G5	PDCAM06080
Draba densifolia	whitlow-grass	S1S2	G5	PDBRA110W0
Draba fladnizensis	whitlow-grass	S1	G4	PDBRA110Z0
Draba glabella	whitlow-grass	S1	G4G5	PDBRA11100
Draba kananaskis	Kananaskis whitlow-grass	S1	G1Q	PDBRA111C0
Draba longipes	whitlow-grass	S1S2	G4	PDBRA111G0
Draba macounii	Macoun's whitlow-grass	S2	G3G4	PDBRA111H0
Draba porsildii	Porsild's whitlow-grass	S2	G3G4	PDBRA11200
Draba reptans	whitlow-grass	S1	G5	PDBRA11270
Draba ventosa	whitlow-grass	S2	G3	PDBRA112N0
Drosera linearis	slender-leaved sundew	S2	G4	PDDRO02060
Dryopteris cristata	crested shield fern	S1	G5	PPDRY0A090
Dryopteris filix-mas	male fern	S1	G5	PPDRY0A0B0
Elatine triandra	waterwort	S1	G5	PDELT02090
Eleocharis compressa var borealis	flattened spike-rush	SU	G5T5	PMCYP091S2
Eleocharis engelmannii	Engelmann's spike-rush	S1?	G4?	PMCYP090M0
Eleocharis tenuis	slender spike-rush	SU	G5	PMCYP091S0
Ellisia nyctelea	waterpod	S2	G5	PDHYD02010
Elodea bifoliata		S1	G4G5	PMHYD03010
Elymus scribneri	Scribner's wheat grass	S2	G5	PMPOA2H170
Elymus virginicus	Virginia wild rye	S1	G5	PMPOA2H0M0
Epilobium clavatum	willowherb	S2	G5	PDONA06050
Epilobium glaberrimum ssp fastigiatum	willowherb	S1	G5T?	PDONA06091
Epilobium halleanum	willowherb	S1	G5	PDONA060A0
Epilobium lactiflorum	willowherb	S2	G5	PDONA060D0
Epilobium leptocarpum	willowherb	S1	G5	PDONA060F0
Epilobium luteum	willowherb	S1	G5	PDONA060H0
Epilobium mirabile	willowherb	S?	G4Q	PDONA060K0

Epilobium saximontanum	Rocky Mountain willowherb	S1	G5	PDONA060W0
Erigeron divergens	fleabane	S1	G5	PDAST3M160
Erigeron flagellaris	creeping fleabane	S1	G5	PDAST3M1F0
Erigeron hyssopifolius	wild daisy fleabane	S1	G5	PDAST3M1Y0
Erigeron lackschewitzii		S1	G3	PDAST3M5W0
Erigeron ochroleucus var scribneri	buff fleabane	S2	G5T5	PDAST3M2V2
Erigeron pallens	pale alpine fleabane	S2	G2?Q	PDAST3M300
Erigeron radicatus	dwarf fleabane	S2	G3	PDAST3M3L0
Erigeron trifidus	trifid-leaved fleabane	S1S2	G2G3Q	PDAST3M4L0
Eriogonum cernuum	nodding umbrella-plant	S2	G5	PDPGN08110
Eriogonum pauciflorum		SU	G5	PDPGN084M0
Eriophorum callitrix	beautiful cotton grass	S2	G5	PMCYP0A050
Eupatorium maculatum	spotted Joe-pye weed	S1S2	G5	PDAST3P140
Festuca altaica	northern rough fescue	S2	G5	PMPOA2V020
Festuca lenensis		SU	G4	PMPOA2V1L0
Festuca minutiflora	tiny-flowered fescue	S2	G5	PMPOA2V1M0
Festuca occidentalis	western fescue	S1	G5	PMPOA2V0M0
Festuca subulata	fescue	S1	G5	PMPOA2V0T0
Festuca viviparoidea ssp krajinae		S1	G4G5T?	PMPOA2V1X1
Fraxinus pennsylvanica	green ash	S1	G5	PDOLE040D0
Galium bifolium	two-leaved Bedstraw	S1	G5	PDRUB0N090
Gayophytum racemosum	low willowherb	S1	G5	PDONA09070
Gentiana fremontii		S2S3	G4	PDGEN060Y0
Gentianopsis detonsa ssp raupii	northern fringed gentian	S1	G4T?	PDGEN08032
Geranium carolinianum	Carolina wild geranium	S1	G5	PDGER02070
Geranium erianthum	geranium	SH	G5	PDGER020D0
Glyceria elata	tufted tall manna grass	S2	G4G5	PMPOA2Y060
Gnaphalium microcephalum	common cudweed	SH	G5	PDAST440E0
Gnaphalium viscosum	clammy cudweed	SH	G5	PDAST440T0
Gratiola neglecta	clammy hedge-hyssop	S2S3	G5	PDSCR0R070
Gymnocarpium disjunctum		S1	G4	PPDRY0D020
Gymnocarpium jessoense	northern oak fern	S1	G5	PPDRY0D050
Halimolobos virgata	halimolobos	S1	G4	PDBRA1A040
Hedyotis longifolia	long-leaved bluets	S2	G4G5	PDRUB1T0E0
Heliotropium curassavicum	spatulate-leaved heliotrope	S1	G5	PDBOR0J080
Heuchera glabra	alpine alumroot	S1	G5	PDSAX0E0E0
Hieracium cynoglossoides	woolly hawkweed	S2S3	G5?	PDAST4W0E0
Hippuris montana	mountain mare's-tail	S1	G4	PDHPR01010

Hordeum pusillum	little barley	SH	G5	PMPOA380B0
Huperzia haleakalae		S2	G4?	PPLYC02050
Huperzia selago	mountain club-moss	S1	G5	PPLYC02070
Hydrophyllum capitatum	woollen-breeches	S2S3	G4?	PDHYD08030
Hymenopappus filifolius	tufted hymenopappus	S2	G5	PDAST51030
Hypericum majus	large Canada St. John's-wort	S2	G5	PDCLU03120
Hypericum scouleri ssp scouleri	western St. John's-wort	S1	G5T?	PDCLU030Q2
Iliamna rivularis	mountain hollyhock	S2	G5	PDMAL0K070
Iris missouriensis	western blue flag	S1	G5	PMIRI090L0
Isoetes bolanderi var bolanderi	Bolander's quillwort	S1	G4T4	PPISO01011
Isoetes echinospora	northern quillwort	S1	G5?	PPISO01040
Isoetes maritima		S1	G3?	PPISO01100
Isoetes occidentalis		S1	G4G5	PPISO01110
Isoetes x truncata		S1	HYB	PPISO01170
Juncus biglumis	two-glumed rush	S2	G5	PMJUN010B0
Juncus brevicaudatus	short-tail rush	S2	G5	PMJUN010G0
Juncus confusus	few-flowered rush	S2S3	G5	PMJUN010S0
Juncus filiformis	thread rush	S2S3	G5	PMJUN01150
Juncus nevadensis	Nevada rush	S1	G5	PMJUN011Z0
Juncus parryi	Parry's rush	S2	G4G5	PMJUN01250
Juncus regelii	Regel's rush	S1	G4?	PMJUN012D0
Juncus stygius var americanus	marsh rush	S2	G5T5	PMJUN012N1
Koenigia islandica	koenigia	S1	G4	PDPGN0D010
Lactuca biennis	tall blue lettuce	S2	G5	PDAST5F010
Larix occidentalis	western larch	S2	G5	PGPIN02040
Lesquerella arctica var purshii	northern bladderpod	S2	G4T?	PDBRA1N033
Lewisia pygmaea var pygmaea	dwarf bitter-root	S2	G5T5	PDPOR040C3
Lewisia rediviva	bitter-root	S1	G5	PDPOR040D0
Leymus mollis	American dune grass	S1	G5	PMPOA6P030
Lilaea scilloides	flowering-quillwort	S1	G5?	PMJCG01010
Linanthus septentrionalis	linanthus	S2	G5	PDPLM09120
Listera caurina	western twayblade	S1	G4?	PMORC1N040
Listera convallarioides	broad-lipped twayblade	S2	G5	PMORC1N050
Lithophragma glabrum	rockstar	S2	G4G5	PDSAX0M050
Lithophragma parviflorum	small-flowered rockstar	S2	G5	PDSAX0M080
Lobelia dortmanna	water lobelia	S1	G4	PDCAM0E0C0
Lobelia spicata	spiked lobelia	S1	G5	PDCAM0E190
Loiseleuria procumbens	alpine azalea	S1S2	G5	PDERI0Q010

Lomatium cous	biscuit-root	S1S2	G5	PDAPI1B0C0
Lomatogonium rotatum	marsh felwort	S2	G5	PDGEN0C010
Lupinus arcticus ssp subalpinus		SU	G4G5T?	PDFAB2B0G3
Lupinus minimus	least lupine	S1	G3G4	PDFAB2B2N0
Lupinus polyphyllus	large-leaved lupine	S1	G5	PDFAB2B370
Lupinus wyethii	Wyeth's lupine	S1	G5	PDFAB2B470
Luzula acuminata	wood-rush	S1	G5	PMJUN02010
Luzula groenlandica	wood-rush	S1	G4	PMJUN020B0
Luzula rufescens	reddish wood-rush	S1	G5	PMJUN020H0
Lycopodiella inundata	bog club-moss	S1	G5	PPLYC03060
Lycopus americanus	American water-horehound	S2	G5	PDLAM0X010
Lysimachia hybrida		S2	G5	PDPRI070A0
Malaxis monophylla	white adder's-mouth	S2	G5	PMORC1R060
Malaxis paludosa	bog adder's-mouth	S1	G4	PMORC1R070
Marsilea vestita	hairy pepperwort	S2	G5	PPMAR01080
Melica smithii	melic grass	S1S2	G4	PMPOA3X0F0
Melica spectabilis	onion grass	S2	G5	PMPOA3X0G0
Mertensia lanceolata	lance-leaved lungwort	S2	G5	PDBOR0N0C0
Mertensia longiflora	large-flowered lungwort	S2	G4G5	PDBOR0N0D0
Microseris nutans	nodding scorzonella	S2S3	G5	PDAST6E0C0
Mimulus breweri		S1	G5	PDSCR1B0N0
Mimulus floribundus	small yellow monkeyflower	S1	G5	PDSCR1B170
Mimulus glabratus	smooth monkeyflower	S1	G5	PDSCR1B1A0
Mimulus guttatus	yellow monkeyflower	SU	G5	PDSCR1B1E0
Mimulus tilingii		S1	G5	PDSCR1B2M0
Minuartia elegans	purple alpine sandwort	S1	G4G5	PDCAR0G0A0
Monotropa hypopithys	pinesap	S2	G5	PDMON03020
Montia linearis	linear-leaved montia	S1	G5	PDPOR05080
Montia parvifolia	small-leaved montia	S1	G4G5	PDPOR050A0
Muhlenbergia asperifolia	scratch grass	S2	G5	PMPOA48070
Muhlenbergia racemosa	marsh muhly	S1	G5	PMPOA481D0
Munroa squarrosa	false buffalo grass	S1	G5	PMPOA49010
Najas flexilis	slender naiad	S1S2	G5	PMNAJ01020
Nemophila breviflora	small baby-blue-eyes	S1S2	G5	PDHYD0B020
Nothocalais cuspidata	prairie false dandelion	S1	G5	PDAST6P020
Nuttallanthus canadensis	field toad-flax	S1	G4G5	PDSCR2P010
Nymphaea leibergii		S1	G5	PDNYM050J0
Oenothera flava	low yellow evening-primrose	S2	G5	PDONA0C0E0

Oenothera psammophila		SU	G3	PDONA0C140
Onosmodium molle	western false gromwell	S2	G4G5	PDBOR0S030
Orobanche ludoviciana	Louisiana broom-rape	S2	G5	PDORO04070
Orobanche uniflora	one-flowered cancer-root	S2	G5	PDORO040F0
Oryzopsis canadensis	Canadian rice grass	S1	G5	PMPOA4J030
Oryzopsis exigua	little rice grass	S1	G5	PMPOA4J040
Oryzopsis micrantha	little-seed rice grass	S2	G5	PMPOA4J070
Osmorhiza longistylis	smooth sweet cicely	S2	G5	PDAPI1K060
Osmorhiza purpurea	purple sweet cicely	S2	G4G5	PDAPI1K080
Oxytropis campestris var davisii		S2?	G5T3	PDFAB2X04A
Oxytropis lagopus var conjugans	hare-footed locoweed	S1	G4G5T3	PDFAB2X0A2
Packera subnuda	ragwort	S2	G5	PDAST8H0Z0
Panicum acuminatum		SU	G5	PMPOA24020
Panicum leibergii	Leiberg's millet	S1	G5	PMPOA240K0
Panicum wilcoxianum		S1	G5	PMPOA241Q0
Papaver pygmaeum	alpine poppy	S2	G3	PDPAP0H0G0
Papaver radicatum ssp kluanense	alpine poppy	S2	G3?Q	PDPAP0H0J2
Parietaria pensylvanica	American pellitory	S2	G5	PDURT06060
Parnassia parviflora	small northern grass-of-parnassus	S2	G4	PDSAX0P0A0
Pedicularis capitata	large-flowered lousewort	S2	G4	PDSCR1K060
Pedicularis flammea	flame-colored lousewort	S2	G3G5	PDSCR1K0E0
Pedicularis lanata	woolly lousewort	S2	G4G5	PDSCR1K0L0
Pedicularis langsdorfii ssp arctica	Arctic lousewort	S2	G4T4	PDSCR1K0N1
Pedicularis racemosa	leafy lousewort	S1	G5	PDSCR1K0Y0
Pedicularis sudetica	purple rattle	S1	G5	PDSCR1K110
Pellaea gastonyi		S1	G2G4	PPADI0H0G0
Pellaea glabella	smooth cliff brake	S2	G5	PPADI0H060
Pellaea glabella ssp occidentalis		S1	G5T?	PPADI0H061
Pellaea glabella ssp simplex		S2	G5T4?	PPADI0H066
Penstemon fruticosus var scouleri	shrubby beardtongue	S2	G4T?	PDSCR1L2G2
Phacelia linearis	linear-leaved scorpionweed	S2	G5	PDHYD0C2Q0
Phacelia lyallii	Lyall's scorpionweed	S2	G3	PDHYD0C2T0
Phegopteris connectilis	northern beech fern	S2	G5	PPTHE02010
Philadelphus lewisii	mock orange	S1	G5	PDHDR090H0
Phlox gracilis ssp gracilis	slender phlox	S1	G5T5	PDPLM0D251
Physocarpus malvaceus	mallow-leaved ninebark	S1	G4G5	PDROS19030
Physostegia ledinghamii		S2	G3?	PDLAM1G0E0
Picradeniopsis oppositifolia	picradeniopsis	S1	G5?	PDAST76010

Pinguicula villosa	small butterwort	S1	G4	PDLNT01080
Pinus monticola	western white pine	SU	G4G5	PGPIN040M0
Plantago canescens	western ribgrass	S2	G4G5	PDPLN02080
Plantago maritima	sea-side plantain	S1	G5	PDPLN020U0
Platanthera stricta	slender bog orchid	S2	G5	PMORC1Y0P0
Poa gracillima	Pacific bluegrass	S2	G4	PMPOA4Z120
Poa laxa ssp banffiana		S1	G5?T1	PMPOA4Z1D1
Poa lettermanii	Letterman's bluegrass	S1	G4	PMPOA4Z1H0
Poa nevadensis	Nevada bluegrass	SU	G5	PMPOA4Z1U0
Poa stenantha	bluegrass	SU	G5	PMPOA4Z2C0
Polanisia dodecandra	clammyweed	S2	G5	PDCPP08010
Polygala paucifolia	fringed milkwort	S1	G5	PDPGL02180
Polygonum minimum	least knotweed	S2	G5	PDPGN0L1E0
Polygonum polygaloides ssp confertiflorum	Watson's knotweed	S2	G4G5T3T4	PDPGN0L1Y1
Polypodium hesperium	western polypody	S1S2	G5	PPPOL020G0
Polypodium sibiricum		S1?	G5?	PPPOL02170
Polypodium virginianum	rock polypody	S2?	G5	PPPOL02110
Potamogeton foliosus	leafy pondweed	S2	G5	PMPOT030B0
Potamogeton natans	floating-leaf pondweed	S2	G5	PMPOT030N0
Potamogeton obtusifolius	blunt-leaved pondweed	S2	G5	PMPOT030R0
Potamogeton praelongus	white-stem pondweed	S2	G5	PMPOT030V0
Potamogeton robbinsii	Robbins' pondweed	S1	G5	PMPOT030Z0
Potamogeton strictifolius	linear-leaved pondweed	S2	G5	PMPOT03110
Potentilla drummondii	Drummond's cinquefoil	S2	G5	PDROS1B0J0
Potentilla finitima	sandhills cinquefoil	S1	G2G4Q	PDROS1B2T0
Potentilla hookeriana	Hooker's cinquefoil	S2	G4	PDROS1B0W0
Potentilla macounii		S1	G2?	PDROS1B2L0
Potentilla multifida	branched cinquefoil	S1	G5	PDROS1B110
Potentilla multisecta	smooth-leaved cinquefoil	S2	G3G4Q	PDROS1B2M0
Potentilla paradoxa	bushy cinquefoil	S2	G5	PDROS1B1A0
Potentilla plattensis	low cinquefoil	S1	G4	PDROS1B1E0
Potentilla subjuga		S1	G4	PDROS1B1X0
Potentilla villosa	hairy cinquefoil	S2	G4	PDROS1B250
Prenanthes alata	white lettuce	S1	G5	PDAST7K010
Prenanthes sagittata	purple rattlesnakeroot	S2	G3G4	PDAST7K0C0
Primula egaliksensis	primrose	S2	G4	PDPRI08060
Primula stricta	erect primrose	S1	G4	PDPRI080J0

Psilocarphus elatior	woollyheads	S2	G4Q	PDAST7R020
Puccinellia cusickii	Cusick's salt-meadow grass	SU	G3G4Q	PMPOA53160
Puccinellia distans ssp hauptiana		S1	G5T3T4	PMPOA530A3
Pyrola grandiflora	Arctic wintergreen	S2	G5	PDPYR04050
Pyrola picta	white-veined wintergreen	S1	G4G5	PDPYR04070
Quercus macrocarpa	burr oak	S1?	G5	PDFAG05190
Ranunculus glaberrimus	early buttercup	S2	G5	PDRAN0L0Z0
Ranunculus nivalis	snow buttercup	S1	G5	PDRAN0L1U0
Ranunculus occidentalis var brevistylis	western buttercup	S2	G5T5	PDRAN0L1V6
Ranunculus uncinatus	hairy buttercup	S2	G5	PDRAN0L2P0
Rhododendron lapponicum	Lapland rose-bay	S2	G5	PDERI150G0
Rhynchospora capillacea	slender beak-rush	S1	G5	PMCYP0N070
Ribes laxiflorum	mountain currant	S2	G5	PDGRO020V0
Romanzoffia sitchensis	Sitka romanzoffia	S2	G4	PDHYD0E020
Rorippa curvipes	yellow cress	SU	G5	PDBRA27080
Rorippa curvipes var truncata	blunt-leaved yellow cress	S1	G5	PDBRA270R0
Rorippa sinuata	spreading yellow cress	S1	G5	PDBRA270K0
Rorippa tenerrima	slender cress	S1	G5	PDBRA270P0
Rubus x paracaulis	hybrid dwarf raspberry	S1	HYB	PDROS1K900
Rumex paucifolius	alpine sheep sorrel	S1	G4	PDPGN0P130
Ruppia cirrhosa	widgeon-grass	S2	G5	PMRUP01020
Sagina decumbens	spreading pearlwort	S1	G5	PDCAR0P030
Sagina nivalis	pearlwort	SU	G5	PDCAR0P070
Sagina nodosa	pearlwort	S1	G5	PDCAR0P080
Sagittaria latifolia	broad-leaved arrowhead	S1	G5	PMALI040H0
Salix alaxensis var alaxensis	Alaska willow	S2	G5T?	PDSAL02011
Salix commutata	changeable willow	S2	G5	PDSAL020T0
Salix lanata ssp calcicola	woolly willow	S1	G4T4	PDSAL021L1
Salix raupii	Raup's willow	S1	G2	PDSAL022H0
Salix sitchensis	Sitka willow	S1	G5	PDSAL022T0
Salix stolonifera	willow	S1	G4G5	PDSAL022V0
Sarracenia purpurea	pitcher-plant	S2	G5	PDSAR02070
Saussurea americana	American saw-wort	S1	G5	PDAST8B020
Saxifraga ferruginea	saxifrage	S2	G5	PDSAX0U0K0
Saxifraga flagellaris ssp setigera	spiderplant	S2	G5T?	PDSAX0U0L3
Saxifraga nelsoniana ssp porsildiana	Nelson's saxifrage	S2	G5T3T4	PDSAX0U126
Saxifraga nivalis	alpine saxifrage	S2	G4G5	PDSAX0U140
Saxifraga odontoloma	saxifrage	S1	G5	PDSAX0U180

Saxifraga oregana var montanensis	Oregon saxifrage	SU	G4G5T?Q	PDSAX0U1A1
Scirpus pallidus	pale bulrush	S1	G5	PMCYP0Q140
Sedum divergens	spreading stonecrop	S2	G5?	PDCRA0A0B0
Selaginella wallacei	Wallace's little club-moss	S1	G5	PPSEL011C0
Shinnersoseris rostrata	annual skeletonweed	S2	G5?	PDAST8J010
Silene antirrhina	sleepy catchfly	SE?	G5	PDCAR0U040
Silene involucrata	alpine bladder catchfly	S1S2	G5	PDCAR0U0T0
Sisyrinchium septentrionale	pale blue-eyed grass	S2S3	G3G4	PMIRI0D180
Sparganium fluctuans	bur-reed	S1	G5	PMSPA01060
Sparganium glomeratum	bur-reed	S1	G4?	PMSPA01070
Sparganium hyperboreum	northern bur-reed	S1	G5	PMSPA01080
Spartina pectinata	prairie cord grass	S1	G5	PMPOA5S090
Spergularia salina	salt-marsh sand spurry	S2	G5	PDCAR0W0D0
Sphenopholis obtusata	prairie wedge grass	S2	G5	PMPOA5T030
Spiraea splendens	pink meadowsweet	S1	G5	PDROS1Q0N0
Spiranthes lacera	northern slender ladies'-tresses	S1	G5	PMORC2B0D0
Stellaria americana	American chickweed	S1	G3?	PDCAR0X030
Stellaria arenicola	sand-dune chickweed	S1	G3	PDCAR0X0N4
Stellaria crispa	wavy-leaved chickweed	S2	G5	PDCAR0X0B0
Stellaria obtusa	chickweed	S1	G5	PDCAR0X0U0
Stellaria umbellata	chickweed	S1	G5	PDCAR0X120
Stephanomeria runcinata	rush-pink	S2	G5	PDAST8U0C0
Streptopus roseus	rose mandarin	S1	G5	PMLIL1X020
Streptopus streptopoides	twisted-stalk	S1	G5	PMLIL1X030
Suaeda moquinii	Moquin's sea-blite	S2	G5	PDCHE0P0F0
Suckleya suckleyana	poison suckleya	S1	G5	PDCHE0Q010
Suksdorfia ranunculifolia	suksdorfia	S2	G5	PDSAX0W010
Suksdorfia violacea	blue suksdorfia	S1	G4	PDSAX0W020
Tanacetum bipinnatum ssp huronense	Indian tansy	S1	G4G5Q	PDAST92012
Taxus brevifolia	western yew	S1	G4	PGTXA01010
Tellima grandiflora	fringe-cups	S1	G5	PDSAX0Z010
Thelesperma subnudum var marginatum	greenthread	S1	G5T5	PDAST980A1
Thuja plicata	western red cedar	S1S2	G5	PGCUP06030
Torreyochloa pallida var fernaldii		S?	G5?T4Q	PMPOA61031
Torreyochloa pallida var pauciflora	few-flowered salt-meadow grass	S1	G5?T5?	PMPOA61033
Townsendia condensata	alpine townsendia	S2	G4	PDAST9C040

Townsendia exscapa	low townsendia	S2	G5	PDAST9C060
Tradescantia occidentalis	western spiderwort	S1	G5	PMCOM0B0F0
Triantha occidentalis ssp brevistyla		S1	G5T4	PMLIL1Y032
Triantha occidentalis ssp montana		S1	G5T?	PMLIL1Y034
Trichophorum clintonii	Clinton's bulrush	S1	G4	PMCYP0Q0A0
Trichophorum pumilum	dwarf bulrush	S2	G5	PMCYP0Q250
Trillium ovatum	western wakerobin	S1	G5	PMLIL200M0
Tripterocalyx micranthus	sand verbena	S2	G5	PDNYC0G030
Trisetum cernuum	nodding trisetum	S2	G5	PMPOA69030
Trisetum cernuum var canescens	tall trisetum	S1	G5T?	PMPOA69031
Trisetum montanum	mountain trisetum	S1	G4G5	PMPOA69090
Trisetum wolfii	awnless trisetum	S1	G4	PMPOA690E0
Tsuga heterophylla	western hemlock	S1	G5	PGPIN06030
Utricularia cornuta	horned bladderwort	S1	G5	PDLNT02030
Vaccinium ovalifolium	oval-leaved blueberry	S2	G5	PDERI180P0
Vaccinium uliginosum	bog bilberry	S2	G5	PDERI18110
Veronica catenata	water speedwell	S1S2	G5	PDSCR20090
Viola pallens	Macloskey's violet	S1	G5T5	PDVIO04142
Viola pedatifida	crowfoot violet	S2	G5	PDVIO041J0
Viola praemorsa ssp linguifolia		S2	G5T5	PDVIO041L3
Wolffia columbiana	watermeal	S2	G5	PMLEM03030
Woodsia glabella	smooth woodsia	S1	G5	PPDRY0U040
Yucca glauca	soapweed	S1	G5	PMAGA0B0F0

Number of records: 472. *Last Updated on 2001-02-21*

Watch List: Vascular Plants

Scientific Name	Common Name	S Rank	GRank	Code
Alopecurus carolinianus	Carolina foxtail	S3	G5	PMPOA07040
Angelica dawsonii	yellow angelica	S3	G4	PDAPI07080
Arnica louiseana	rock arnica	S3	G3	PDAST0Q0F0
Asclepias ovalifolia	low milkweed	S3	G5?	PDASC021D0
Aster engelmannii	elegant aster	S3S4	G4G5	PDAST0T0Z0
Atriplex suckleyi	endolepis	S3	G4?	PDCHE041W0
Berberis repens	creeping mahonia	S3	G5	PDBER060E0
Bupleurum americanum	thorough-wax	S3	G5	PDAPI0F010
Calochortus apiculatus	mariposa lily	S3	G4	PMLIL0D050
Campanula lasiocarpa	Alaska harebell	S3	G5	PDCAM020F0
Carex geyeri	Geyer's sedge	S3	G5	PMCYP03540
Ceanothus velutinus	snowbrush	S3	G5	PDRHA041H0
Chrysosplenium iowense	golden saxifrage	S3	G3G4	PDSAX07030
Chrysosplenium tetrandrum	green saxifrage	S3	G5	PDSAX07050
Claytonia megarhiza	alpine spring beauty	S3	G4?	PDPOR030A0
Coptis trifolia	goldthread	S3	G5	PDRAN0A040
Crataegus douglasii	Douglas hawthorn	S3	G5	PDROS0H1H0
Cypripedium acaule	stemless lady's-slipper	S3	G5	PMORC0Q010
Disporum hookeri var oreganum	Oregon fairybells	S3	G4G5T?	PMLIL0R012
Dryopteris fragrans	fragrant shield fern	S3	G5	PPDRY0A0C0
Erigeron lanatus	woolly fleabane	S3	G3G4	PDAST3M250
Gentiana calycosa	mountain gentian	S3	G4	PDGEN06090
Gentiana glauca	alpine gentian	S3	G4G5	PDGEN060E0
Lomatium sandbergii	Sandberg's wild parsley	S3	G4	PDAPI1B1R0
Luetkea pectinata	partridgefoot	S4	G5	PDROS11010
Lupinus nootkatensis	Nootka lupine	S3	G5	PDFAB2B2S0
Luzula hitchcockii	smooth wood-rush	S3S4	G4	PMJUN020A2
Minuartia nuttallii ssp nuttallii	Nuttall's sandwort	S3	G5T?	PDCAR0G0M4
Osmorhiza occidentalis	western sweet cicely	S3	G4G5	PDAPI1K070
Packera contermina	Arctic butterweed	S3	G3?	PDASTE60F0
Paxistima myrsinites	mountain-lover	S3	G4G5	PDCEL0A020
Penstemon albertinus	blue beardtongue	S3	G4G5	PDSCR1L050
Penstemon eriantherus	crested beardtongue	S3	G4	PDSCR1L270
Penstemon lyallii	large-flowered beardtongue	S3	G4	PDSCR1L3U0
Phacelia hastata	silver-leaved scorpionweed	S3	G5	PDHYD0C1Z0

Pinus albicaulis	whitebark pine	S3?	G4	PGPIN04010
Pinus flexilis	limber pine	S3?	G5	PGPIN040F0
Pteridium aquilinum var pubescens	bracken fern	S3	G5T3T5	PPDEN08017
Pyrola bracteata	large wintergreen	S3	G?	PDPYR04022
Pyrrocoma uniflora	one-flowered ironplant	S3	G5	PDASTDT0K0
Ribes viscosissimum	sticky currant	S3	G5	PDGRO021R0
Saxifraga mertensiana	Merten's saxifrage	S3	G5	PDSAX0U0Y0
Schizachyrium scoparium var scoparium	little bluestem	S3	G5T?	PMPOA5D096
Sedum stenopetalum	narrow-petaled stonecrop	S3	G4G5	PDCRA0A1H0
Senecio megacephalus	large-flowered ragwort	S3	G4?	PDAST8H200
Solidago mollis	velvety goldenrod	S3	G5	PDAST8P110
Wolffia borealis	northern ducksmeal	S3	G5	PMLEM03060
Woodsia ilvensis	rusty woodsia	S3	G5	PPDRY0U050
Xerophyllum tenax	bear-grass	S3S4	G4G5	PMLIL26020

Number of records: 49. *Last Updated on 2001-02-21*

Vascular Plants Reported for Alberta

(but without persuasive documentation)

Scientific Name	Common Name	SRank	GRank	Code
Achillea millefolium var megacephala		SR	G5T1	PDAST0303C
Agropyron fragile		SR	G?	PMPOA030P0
Anemone virginiana	Virginia anemone	SR	G5	PDRAN040T0
Aster lanceolatus	panicled aster	SR	G5	PDAST0T480
Astragalus adsurgens	rattle milk-vetch	SR	G5	PDFAB0F060
Botrychium simplex var tenebrosum	least grape-fern	SR	G5T4?Q	PPOPH010E4
Brachyactis ciliata		SR	G5	PDASTE8010
Brassica rapa	Bird's rape	SR	G?	PDBRA0C0A0
Carex foenea	dry-spike sedge	SR	G5	PMCYP034V0
Carex sitchensis		SR	G?	PMCYP030V4
Cerastium beeringianum ssp terrae-novae	Newfoundland chickweed	SR	G5T4?	PDCAR060U3
Draba paysonii var paysonii		SR	G5T3?	PDBRA111W1
Eleocharis nitida	slender spike-rush	SR	G3G4	PMCYP09180
Elymus alaskanus		SR	G4?	PMPOA2H0U0
Elymus vulpinus		SR	G1G3Q	PMPOA2H1B0
Erigeron ochroleucus var ochroleucus	Klaus' fleabane	SR	G5T4	PDAST3M2V3
Hackelia ciliata	Okanogan stickseed	SR	G3?	PDBOR0G060
Hackelia deflexa	northern stickseed	SR	G5	PDBOR0G0B0
Helianthus pauciflorus		SR	G5	PDAST4N1Q0
Hordeum murinum	mouse barley	SR	G?	PMPOA380A0
Lactuca tatarica	Tartarian lettuce	SR	G5	PDAST5F0B0
Luzula glabrata	smooth wood-rush	SR	G5	PMJUN020A0
Melica hitchcockii		SR	G?	PMPOA3X0L0
Navarretia leucocephala	white-flowered navarretia	SR	G4	PDPLM0C0E0
Odontites vernus		SR	G?	PDSCR1G020
Phippsia algida		SR	G5	PMPOA4T010
Physalis philadelphica		SR	G?	PDSOL0S0K0
Poa fendleriana		SR	G5	PMPOA4Z0V0
Poa laxa		SR	G5?	PMPOA4Z1D0
Ranunculus flabellaris	yellow water-crowfoot	SR	G5	PDRAN0L0W0
Salix turnorii		SR	G2	PDSAL022Y0
Saxifraga subapetala		SR	G3G4Q	PDSAX0U2B0
Senecio integerrimus var ochroleucus		SR	G5T?	PDAST8H1S4
Silene latifolia		SR	G?	PDCAR0U290
Stellaria nitens	shiny stitchwort	SR	G5	PDCAR0X0T0
Stipa nelsonii		SR	G5	PMPOA5X180
Trollius laxus		SR	G4	PDRAN0P020

Number of records: 37. *Last Updated on 2001-02-21*

Tracking List: Mosses, Liverworts and Hornworts

Scientific Name	Common Name	S Rank	GRank	Code
Aloina brevirostris	short-beaked rigid screw moss	S2	G3G5	NBMUS03020
Aloina rigida	aloe-like rigid screw moss	S2	G3G5	NBMUS03040
Amblyodon dealbatus		S2	G3G5	NBMUS05010
Amphidium mougeotii		S1	G5	NBMUS07030
Anastrophyllum assimile	liverwort	S2	G3?	NBHEP04010
Anastrophyllum helleranum	liverwort	S2	G5	NBHEP04030
Anastrophyllum michauxii	liverwort	S1	G4	NBHEP04040
Anastrophyllum saxicolus		S1?		NBTEMP0001
Andreaea alpestris		S1	G?	NBMUS0A090
Andreaea blyttii		S1	G5	NBMUS0A010
Andreaea nivalis	red rock moss	S2	G5	NBMUS0A040
Andreaea rupestris	black rock moss	S2	G5	NBMUS0A060
Anoectangium aestivum		S1	G3G5	NBMUS0B010
Anomobryum filiforme		S1	G4	NBMUS80010
Anomodon minor		S1	G5	NBMUS0C020
Anthelia julacea		S?	G3G4	NBHEP07010
Aongstroemia longipes		S2	G?	NBMUS0E010
Arctoa fulvella		S1	G3G5	NBMUS0H010
Arnellia fennica	liverwort	S2	G5	NBHEP0A010
Asterella lindenbergiana	liverwort	S1	G?	NBHEP0C050
Asterella saccata	liverwort	S1	G4G5	NBHEP0C070
Athalamia hyalina	liverwort	S2	G5	NBHEP0D010
Atrichum selwynii		S2	G4	NBMUS0M060
Atrichum undulatum	undulated crane's bill moss	S1S2	G5	NBMUS0M080
Aulacomnium acuminatum		S1	G3?	NBMUS0N010
Aulacomnium androgynum		S2	G5	NBMUS0N020
Barbilophozia attenuata	liverwort	S1	G5	NBHEP0E020
Barbilophozia binsteadii	liverwort	S1	G4	NBHEP0E040
Barbilophozia kunzeana	liverwort	S2	G5	NBHEP0E090
Barbilophozia quadriloba	liverwort	S2	G5	NBHEP0E0B0
Barbula coreensis		S1	G?	NBMUS0Q100
Bartramia halleriana		S1	G4G5	NBMUS0R020
Bartramia pomiformis		S2	G5	NBMUS0R050
Blasia pusilla		S2	G5	NBHEP0G010
Blindia acuta	sharp-pointed weissia	S1S2	G5	NBMUS0V010
Brachythecium acuminatum		S1?	G5	NBMUS0Z010

Brachythecium acutum		SU	G?Q	NBMUS0Z020
Brachythecium calcareum		S1	G3G4	NBMUS0Z060
Brachythecium frigidum		SU	G4	NBMUS0Z0D0
Brachythecium hylotapetum		S2	G?	NBMUS0Z0G0
Brachythecium nelsonii		S2	G?	NBMUS0Z0J0
Brachythecium plumosum		S2	G5	NBMUS0Z0L0
Brachythecium reflexum		S1	G4G5	NBMUS0Z0N0
Brachythecium rutabulum		S2?	G5	NBMUS0Z0R0
Bryobrittonia longipes		S3	G3	NBMUS8F010
Bryoerythrophyllum ferruginascens	red leaf moss	S1	G4	NBMUS18040
Bryohaplocladium virginianum		SU	G5	NBMUS9A020
Bryum algovicum		S2	G4G5	NBMUS1A030
Bryum amblyodon		S1	G?	NBMUS1A1S0
Bryum arcticum		S1	G?	NBMUS1A060
Bryum calobryoides		S1	G3	NBMUS1A1W0
Bryum calophyllum		S1	G?	NBMUS1A0E0
Bryum cyclophyllum		S1S2	G4G5	NBMUS1A1G0
Bryum dichotomum		S1	G5?	NBMUS1A1N0
Bryum flaccidum		SU	G5	NBMUS1A1Q0
Bryum knowltonii		S1	G3G4	NBMUS1A0P0
Bryum lonchocaulon		SU	G?	NBMUS1A0Q0
Bryum marratii		S1	G3G4	NBMUS1A0S0
Bryum muehlenbeckii		S1	G4G5	NBMUS1A0V0
Bryum pallens		S2	G4G5	NBMUS1A0X0
Bryum purpurascens		S1	G3G4	NBMUS1A100
Bryum schleicheri		S1	G?	NBMUS1A150
Bryum stirtonii		S1S2	G?	NBMUS1A310
Bryum turbinatum		SU	G5	NBMUS1A1A0
Bryum uliginosum		S1	G3G5	NBMUS1A1B0
Buellia lactoidea		S2		NLBUEBULA1
Buxbaumia aphylla	bug on a stick	S2	G4	NBMUS1B010
Buxbaumia viridis	green shield moss	S1S2	G4	NBMUS1B040
Calypogeia integristipula	liverwort	S?	G4G5	NBHEP0M020
Calypogeia muelleriana	liverwort	S?	G5	NBHEP0M030
Calypogeia neesiana	liverwort	S?	G5	NBHEP0M040
Calypogeia sphagnicola	liverwort	S?	G5	NBHEP0M060
Calypogeia suecica	liverwort	S?	G5	NBHEP0M070
Calypogeia trichomanis	liverwort	S?	G5	NBHEP0M090

Campylium polygamum		S3	G5	NBMUS1J060
Campylium radicale		S2	G3G5	NBMUS1J070
Cephalozia bicuspidata	liverwort	S?	G5	NBHEP0P020
Cephalozia catenulata	liverwort	S?	G5	NBHEP0P030
Cephalozia macounii	liverwort	S?	G3	NBHEP0P090
Cephalozia pleniceps	liverwort	S2S3	G5	NBHEP0P0B0
Cephaloziella divaricata	liverwort	S?	G5	NBHEP0Q050
Cephaloziella elachista	liverwort	S?	G4	NBHEP0Q060
Cephaloziella hampeana	liverwort	S?	G5	NBHEP0Q090
Cephaloziella rubella	liverwort	S?	G5	NBHEP0Q0H0
Cephaloziella subdentata	liverwort	S?	G4G5	NBHEP0Q0K0
Chandonanthus setiformis	liverwort	S1	G5	NBHEP0S030
Chiloscyphus pallescens	liverwort	S1	G5	NBHEP0U020
Chiloscyphus polyanthos	liverwort	S1	G5	NBHEP0U030
Cirriphyllum cirrosum		S2	G?	NBMUS1Q020
Claopodium bolanderi		S2	G4	NBMUS1R010
Conardia compacta		S2	G3G5	NBMUS1U010
Conocephalum conicum	liverwort	S2	G5	NBHEP0Y010
Coscinodon calyptratus	sieve-toothed big calyptra moss	S2	G?	NBMUS96010
Coscinodon cribrosus	sieve-toothed moss	S1	G3?	NBMUS96020
Cryptocolea imbricata		S1	G3	NBHEP10010
Cynodontium alpestre		S1	G3G5	NBMUS22010
Cynodontium glaucescens	glaucous shield moss	S1	G3G4	NBMUS22060
Cynodontium schisti		S1	G3G5	NBMUS22030
Cynodontium strumiferum		S2	G3G5	NBMUS22040
Cynodontium tenellum		S2	G?	NBMUS22050
Cyrtomnium hymenophylloides		S1S2	G5?	NBMUS9R010
Desmatodon cernuus	narrow-leafed chain-teeth moss	S1	G3G5	NBMUS25010
Desmatodon heimii	long-stalked beardless moss	S1	G5	NBMUS25060
Desmatodon heimii var heimii		S1	G5T?	NBMUS25062
Desmatodon laureri		S1	G?	NBMUS25080
Desmatodon leucostoma		S2	G?	NBMUS25090
Desmatodon randii		S1	G3?	NBMUS250D0
Desmatodon systylius		S2	G4G5	NBMUS250E0
Dichelyma falcatum		S1	G4G5	NBMUS26020
Dichodontium olympicum		S1	G?	NBMUS27010
Dicranella crispa	curl-leaved fork moss	S2	G?	NBMUS28020
Dicranella heteromalla	silky fork moss	S1	G?	NBMUS28040

Dicranella palustris	drooping-leaved fork moss	S1?	G?	NBMUS28080
Dicranella subulata	awl-leaved fork moss	S2S3	G?	NBMUS280D0
Dicranum angustum	cushion moss	S1S2	G?	NBMUS2B020
Dicranum brevifolium	cushion moss	SU	G?	NBMUS2B0U0
Dicranum majus	greater fork moss	S1	G4G5	NBMUS2B0C0
Dicranum ontariense	cushion moss	S1	G4G5	NBMUS2B0R0
Dicranum pallidisetum	alpine curly heron's bill moss	S1	G?	NBMUS2B0F0
Dicranum spadiceum	cushion moss	S2S3	G?	NBMUS2B0L0
Dicranum tauricum	broken-leaf moss	S1S2	G4	NBMUS2B0N0
Didymodon asperifolius		S1	G3G5	NBMUS2C010
Didymodon fallax	fallacious screw moss	S2	G5	NBMUS2C0B0
Didymodon johansenii		S2	G?	NBMUS2C030
Didymodon nigrescens		S1	G?	NBMUS2C0F0
Didymodon rigidulus	rigid screw moss	S2	G5	NBMUS2C060
Didymodon subandreaeoides		S2	G?	NBMUS2C090
Didymodon tophaceus	blunt-leaved hair moss	S1	G5	NBMUS2C070
Didymodon vinealis		S1	G5	NBMUS2C0A0
Didymodon vinealis var rubiginosus		S1	G5T?	NBMUS2C0A5
Diplophyllum albicans	liverwort	S1	G5.	NBHEP15010
Diplophyllum taxifolium	liverwort	S1	G5	NBHEP15090
Discelium nudum	naked weissia	S1	G3G4	NBMUS2E010
Ditrichum montanum		S1	G?	NBMUS2G050
Drepanocladus brevifolius	brown moss	S1	G?Q	NBMUS2J0E0
Drepanocladus capillifolius	brown moss	S1	G?	NBMUS2J0H0
Drepanocladus crassicostatus	brown moss	S2	G?	NBMUS2J020
Drepanocladus sendtneri	brown moss	S2	G?	NBMUS2J0A0
Dryptodon patens	spreading fringe moss	S2	G4G5	NBMUS2L010
Encalypta brevicolla	candle-snuffer moss	S2	G4	NBMUS2M030
Encalypta brevipes	candle-snuffer moss	S1	G3	NBMUS2M040
Encalypta intermedia	candle-snuffer moss	S2	G?	NBMUS2M100
Encalypta longicolla	candle-snuffer moss	S1	G3G4	NBMUS2M060
Encalypta spathulata	candle-snuffer moss	S2	G3	NBMUS2M120
Encalypta vulgaris	common extinguisher moss	S1S2	G5	NBMUS2M090
Entodon concinnus		S2S3	G4G5	NBMUS2N040
Entodon schleicheri		S1	G3G5	NBMUS2N100
Fissidens adianthoides	maidenhair moss	S2S3	G5	NBMUS2W010
Fissidens grandifrons	narrow-leaved Chinese phoenix	S2	G3G5	NBMUS2W0F0

	moss			
Fissidens limbatus		S1	G3G5	NBMUS2W0M0
Fontinalis antipyretica		S1	G5	NBMUS2X020
Fontinalis dalecarlica		S1	G3G5	NBMUS2X040
Fontinalis missourica		S1	G2G4	NBMUS2X0B0
Fontinalis neomexicana		S2	G3G5	NBMUS2X0C0
Frullania inflata		S1	G5	NBHEP1A0D0
Funaria americana	cord moss	S1	G2	NBMUS2Z010
Funaria muhlenbergii	Muhlenberg's cord moss	S1	G4	NBMUS2Z070
Grimmia alpestris	alpine grimmia	S2	G3G5	NBMUS32150
Grimmia anomala	mountain forest grimmia	S2	G5	NBMUS321D0
Grimmia donniana	Donian grimmia	S2	G4G5	NBMUS320F0
Grimmia elatior	large grimmia	S1	G?	NBMUS320G0
Grimmia incurva	black grimmia	S1	G4G5	NBMUS320M0
Grimmia mollis		S1	G3G5	NBMUS320R0
Grimmia montana	sun grimmia	S2	G?	NBMUS320S0
Grimmia reflexidens		S1	G?	NBMUS32240
Grimmia teretinervis		S1	G3G5	NBMUS32160
Grimmia torquata	twisted-leaved grimmia	S2	G3G5	NBMUS32170
Grimmia trichophylla	hair-pointed grimmia	S1	G5?	NBMUS32180
Gymnocolea inflata	liverwort	S1	G5	NBHEP1D020
Gymnomitrion concinnatum	liverwort	S1	G5	NBHEP1E020
Gymnomitrion corallioides	liverwort	S1	G4G5	NBHEP1E030
Gymnostomum aeruginosum	tufted rock beardless moss	S2S3	G5	NBMUS35010
Harpanthus flotovianus	liverwort	S1	G5	NBHEP1J020
Herzogiella seligeri		S1	G4	NBMUS3E010
Herzogiella turfacea		S1	G4G5	NBMUS3E030
Heterocladium dimorphum		S1	G4G5	NBMUS3F010
Homalothecium nevadense		S1	G4	NBMUS3L050
Homalothecium pinnatifidum		S2?	G4	NBMUS3L070
Hygroamblystegium noterophilum		SU	G4	NBMUS3R020
Hygroamblystegium tenax		S1	G5	NBMUS3R030
Hygrohypnum alpestre		S1	G3G5	NBMUS3S010
Hygrohypnum bestii		S2S3	G4	NBMUS3S020
Hygrohypnum cochlearifolium		S1	G?	NBMUS3S040
Hygrohypnum duriusculum		S1	G?	NBMUS3S0H0
Hygrohypnum molle		S1	G4G5	NBMUS3S080
Hygrohypnum ochraceum		S2	G5	NBMUS3S0A0

Hygrohypnum smithii		S1	G3G5	NBMUS3S0C0
Hygrohypnum styriacum		S1	G?	NBMUS3S0K0
Hylocomiastrum pyrenaicum		S2?	G4G5	NBMUS9G010
Hypnum callichroum		S1	G?	NBMUS3V030
Hypnum pallescens		S1	G5	NBMUS3V0D0
Hypnum procerrimum		S3	G3G4	NBMUS3V0G0
Hypnum recurvatum		S2	G3G5	NBMUS3V0N0
Jaffueliobryum raui		S1	G4?	NBMUS97010
Jaffueliobryum wrightii		S2	G3G4	NBMUS97020
Jungermannia atrovirens	liverwort	S2	G4G5	NBHEP1P010
Jungermannia exsertifolia	liverwort	S2	G5?	NBHEP1P060
Jungermannia hyalina	liverwort	S?	G5	NBHEP1P090
Jungermannia leiantha	liverwort	S?	G5	NBHEP1P0B0
Jungermannia obovata	liverwort	S1	G4G5	NBHEP1P0C0
Jungermannia polaris	liverwort	S?	G5	NBHEP1P0D0
Jungermannia pumila	liverwort	S1	G5	NBHEP1P0E0
Jungermannia rubra	liverwort	S?	G?	NBHEP1P0G0
Jungermannia sphaerocarpa	liverwort	S2	G5	NBHEP1P0H0
Kiaeria blyttii	Blytt's fork moss	S1S2	G5	NBMUS41010
Kiaeria starkei	alpine broom moss	S2	G5	NBMUS41040
Leptodictyum humile		S2	G5	NBMUS44080
Lescuraea saxicola		S1	G4G5	NBMUS47010
Leskea gracilescens		S1?	G5	NBMUS48020
Leskea obscura		S1	G5	NBMUS48030
Leskea polycarpa		S1	G4G5	NBMUS48040
Leskeella nervosa		S2	G5	NBMUS49010
Limprichtia cossonii		SU	G?	NBMUS93020
Loeskypnum badium		S1	G4G5	NBMUS86020
Lophocolea bidentata	liverwort	S?	G5	NBHEP1W010
Lophozia alpestris	liverwort	S2	G5	NBHEP1Y020
Lophozia ascendens	liverwort	S2	G4	NBHEP1Y030
Lophozia badensis	liverwort	S1	G5?	NBHEP1Y040
Lophozia bantriensis	liverwort	S2	G4?	NBHEP1Y050
Lophozia capitata	liverwort	S1	G4	NBHEP1Y070
Lophozia collaris	liverwort	S2	G5	NBHEP1Y080
Lophozia decolorans		S?		NBTEMP0006
Lophozia excisa	liverwort	S2	G5	NBHEP1Y0A0
Lophozia gillmanii	liverwort	S2	G5	NBHEP1Y0B0

Lophozia grandiretis	liverwort	S2	G3?	NBHEP1Y0C0
Lophozia guttulata	liverwort	S2	G4G5	NBHEP1Y0E0
Lophozia heterocolpos	liverwort	S2	G5	NBHEP1Y0F0
Lophozia incisa	liverwort	S2	G5	NBHEP1Y0J0
Lophozia laxa	liverwort	S1	G5	NBHEP1Y0L0
Lophozia longidens	liverwort	S2	G5?	NBHEP1Y0M0
Lophozia obtusa	liverwort	S1	G4G5	NBHEP1Y0N0
Lophozia opacifolia	liverwort	S1	G4	NBHEP1Y0P0
Lophozia pellucida	liverwort	S1	G3?	NBHEP1Y0Q0
Lophozia rutheana	liverwort	S2	G4?	NBHEP1Y0U0
Lophozia wenzelii	liverwort	S1	G4G5	NBHEP1Y0Y0
Mannia fragrans	liverwort	S1	G5	NBHEP20020
Mannia pilosa	liverwort	S1	G4?	NBHEP20030
Mannia triandra	liverwort	S1	G3G4	NBHEP20050
Marchantia alpestris		S1	G3G5	NBHEP21010
Marsupella alpina		S1	G?	NBHEP22010
Marsupella brevissima	liverwort	S1S2	G4?	NBHEP22050
Marsupella commutata		S1	G2G4	NBHEP22060
Marsupella emarginata	liverwort	S2	G5	NBHEP22080
Marsupella revoluta		S1S2	G3G5	NBHEP220B0
Marsupella sparsifolia	liverwort	S2	G3G4	NBHEP220C0
Marsupella sphacelata	liverwort	S1	G5	NBHEP220D0
Marsupella ustulata		S1	G5	NBHEP220E0
Meesia longiseta		S1	G3G4	NBMUS4L010
Mielichhoferia macrocarpa		S1	G2	NBMUS4Q010
Mnium ambiguum		S1S2	G5	NBMUS4S0Y0
Moerckia blyttii	liverwort	S1	G4	NBHEP28010
Moerckia hibernica	liverwort	S1S2	G4?	NBHEP28020
Myurella sibirica		S1	G4?	NBMUS4U020
Myurella tenerrima		S2	G3G4	NBMUS4U030
Nardia breidleri	liverwort	S1	G4G5	NBHEP2A010
Nardia geoscyphus	liverwort	S1S2	G5	NBHEP2A030
Neckera pennata		S1	G5	NBMUS4W030
Odontoschisma denudatum	liverwort	S1	G5	NBHEP2D010
Oligotrichum aligerum		S1	G5	NBMUS51010
Oligotrichum hercynicum	Hercynian hair moss	S2	G5	NBMUS51030
Oligotrichum parallelum		S1	G5	NBMUS51040
Oreas martiana		S1	G5?	NBMUS53010

Orthothecium intricatum		S1	G4G5	NBMUS55040
Orthothecium strictum		S1	G?	NBMUS55060
Orthotrichum affine		SU	G3G5	NBMUS56010
Orthotrichum cupulatum		S1	G4G5	NBMUS56070
Orthotrichum hallii		S1	G3G5	NBMUS560D0
Orthotrichum pallens		S2	G5	NBMUS560M0
Orthotrichum pumilum		S1S2	G5	NBMUS560Q0
Orthotrichum pylaisii		S2	G4G5	NBMUS560T0
Oxystegus tenuirostris	acid-soil moss	S1	G5	NBMUS8D020
Pellia endiviifolia	liverwort	S2	G5	NBHEP2H010
Pellia epiphylla	liverwort	S1	G5	NBHEP2H020
Pellia neesiana	liverwort	S2	G5	NBHEP2H030
Phascum cuspidatum	cuspidate earth moss	S2	G5	NBMUS5B010
Phascum vlassovii		S1	G2?	NBMUS5B040
Philonotis marchica		S1	G5	NBMUS5C060
Philonotis yezoana		S1	G2G3	NBMUS5C0C0
Physcomitrium hookeri	bladder-cap moss	S1	G2G4	NBMUS5E030
Physcomitrium pyriforme	urn moss	S1	G5	NBMUS5E070
Plagiobryum demissum		S1	G?	NBMUS5G010
Plagiobryum zieri		S2	G3G4	NBMUS5G020
Plagiomnium rostratum		S1	G5	NBMUS81080
Platydictya minutissima		SU	G3	NBMUS5K030
Pleuroclada albescens	liverwort	S1	G4G5	NBHEP2N010
Pogonatum dentatum	hair-like pogonatum	S2S3	G3G5	NBMUS5R040
Pogonatum urnigerum	urn-like pogonatum	S2S3	G5	NBMUS5R060
Pohlia andalusica		S1	G?	NBMUS5S0X0
Pohlia annotina		S1	G4G5	NBMUS5S010
Pohlia atropurpurea		S1	G4G5	NBMUS5S020
Pohlia brevinervis		S1	G1G2	NBMUS5S110
Pohlia bulbifera		S1	G4G5	NBMUS5S030
Pohlia camptotrachela		S1	G?	NBMUS5S0Z0
Pohlia crudoides		S1	G?	NBMUS5S080
Pohlia drummondii		S2	G3G4	NBMUS5S0A0
Pohlia elongata		S1	G4G5	NBMUS5S0B0
Pohlia filum		S1	G4G5	NBMUS5S0W0
Pohlia longicolla		S1	G4G5	NBMUS5S0G0
Pohlia obtusifolia		S1	G?	NBMUS5S0K0
Pohlia sphagnicola		S2	G4	NBMUS5S0Q0

Pohlia vexans		S1	G?	NBMUS5S0R0
Polytrichum longisetum	slender hairy-cap	S1	G5	NBMUS5T040
Polytrichum lyallii	hair cap moss	S2	G?	NBMUS5T050
Polytrichum sexangulare	northern hair moss	S2	G4	NBMUS5T090
Porella cordaeana	liverwort	S2	G4	NBHEP2Q020
Porella platyphylla	liverwort	S1	G5	NBHEP2Q050
Pottia intermedia		SH	G3G5	NBMUS5V0A0
Pseudobryum cinclidioides		S1	G5	NBMUS9N010
Pseudoleskea atricha		S2	G5	NBMUS5Z010
Pseudoleskea patens		S2	G5	NBMUS5Z050
Pseudoleskea stenophylla		S1S2	G?	NBMUS5Z070
Pseudoleskeella sibirica		S2	G?	NBMUS60060
Pterygoneurum ovatum	hairy-leaved beardless moss	S1	G5	NBMUS65040
Pterygoneurum subsessile		S1	G4?	NBMUS65050
Racomitrium aciculare		S1S2	G5	NBMUS6B010
Racomitrium elongatum		S1	G?	NBMUS6B110
Racomitrium fasciculare		S1	G5	NBMUS6B060
Racomitrium heterostichum		S2?	G5	NBMUS6B070
Racomitrium macounii		S1	G?	NBMUS6B0C0
Racomitrium microcarpon		S1?	G?Q	NBMUS6B0D0
Racomitrium sudeticum		S1S2	G?	NBMUS6B150
Radula complanata	liverwort	S2	G4	NBHEP2V040
Reboulia hemisphaerica	liverwort	S1	G5	NBHEP2W010
Rhizomnium andrewsianum		S1	G3G5	NBMUS9Q030
Rhizomnium magnifolium		S2	G?	NBMUS9Q080
Rhizomnium nudum		S2	G?	NBMUS9Q040
Rhodobryum ontariense		S2	G5	NBMUS6F020
Rhytidiadelphus squarrosus	pipecleaner moss	S1	G4G5	NBMUS6J020
Riccardia chamedryfolia	liverwort	S?	G5	NBHEP2Y010
Riccardia latifrons	liverwort	S?	G4G5	NBHEP2Y030
Riccardia multifida	liverwort	S3?	G5	NBHEP2Y040
Riccardia palmata		S?	G5	NBHEP2Y050
Riccia beyrichiana		S?	G5	NBHEP2Z030
Riccia cavernosa		S?	G5	NBHEP2Z080
Riccia fluitans		S?	G5	NBHEP2Z0D0
Ricciocarpos natans		S2	G5	NBHEP30010
Sarmenthypnum sarmentosum		S2	G4G5	NBMUS85010
Sauteria alpina	liverwort	S1	G4?	NBHEP32010

Scapania apiculata	liverwort	S1	G5?	NBHEP33030
Scapania brevicaulis	liverwort	S1	G2G3	NBHEP33050
Scapania carinthiaca	liverwort	S1	G3?	NBHEP33070
Scapania curta	liverwort	S2	G5	NBHEP330A0
Scapania cuspiduligera	liverwort	S2	G5	NBHEP330B0
Scapania glaucocephala	liverwort	S1	G4G5	NBHEP330D0
Scapania irrigua	liverwort	S2	G5	NBHEP330H0
Scapania mucronata	liverwort	S1	G5	NBHEP330N0
Scapania nemorosa	liverwort	S1	G5	NBHEP330P0
Scapania paludicola	liverwort	S2	G5	NBHEP330S0
Scapania paludosa	liverwort	S2	G5	NBHEP330T0
Scapania subalpina	liverwort	S2	G4G5	NBHEP33130
Scapania undulata	liverwort	S1	G5	NBHEP33170
Schistidium agassizii	elf bloom moss	S1	G3G5	NBMUS95010
Schistidium heterophyllum		SH	G3	NBMUS95060
Schistidium pulvinatum		S1	G5	NBMUS95040
Schistidium tenerum	thread bloom moss	S1	G?	NBMUS95090
Schistidium trichodon		S1	G?	NBMUS95110
Schistostega pennata	luminous moss	S1S2	G4	NBMUS6P010
Scleropodium obtusifolium		SH	G4	NBMUS6T040
Scouleria aquatica		S2	G4	NBMUS6W010
Seligeria calcarea	chalk brittle moss	S1	G4?	NBMUS6X010
Seligeria campylopoda		S2	G3G5	NBMUS6X020
Seligeria donniana	Donian beardless moss	S2	G4G5	NBMUS6X030
Seligeria subimmersa		S1	G?	NBMUS6X070
Seligeria tristichoides		SU	G4	NBMUS6X080
Sphagnum balticum	peat moss	S1	G?	NBMUS6Z040
Sphagnum compactum	neat bog moss	S1S2	G5	NBMUS6Z070
Sphagnum contortum	twisted bog moss	S1	G5	NBMUS6Z1T0
Sphagnum fallax	peat moss	S2	G5	NBMUS6Z230
Sphagnum fimbriatum	fringed bog moss	S2S3	G5	NBMUS6Z0A0
Sphagnum lindbergii	Lindberg's bog moss	S2S3	G5?	NBMUS6Z0K0
Splachnum ampullaceum	flagon-fruited splachnum	S2	G4	NBMUS71010
Splachnum luteum	yellow collar moss	S2	G3	NBMUS71020
Splachnum rubrum	red collar moss	S2	G3	NBMUS71040
Splachnum sphaericum	globe-fruited splachnum	S2	G3G5	NBMUS71050
Splachnum vasculosum	large-fruited splachnum	S1S2	G?	NBMUS71060
Stegonia pilifera		S2	G?	NBMUS72020

Tayloria acuminata	point-leaf small-kettle moss	SU	G3G4	NBMUS79010
Tayloria froelichiana	Froelichian splachnum	S1	G?	NBMUS79020
Tayloria hornschuchii	small-kettle moss	S1	G?	NBMUS79030
Tayloria lingulata	tongue-leaf small-kettle moss	S2S3	G3G5	NBMUS79040
Tayloria serrata	slender splachnum	S2	G4	NBMUS79050
Tayloria splachnoides	splanchnoid cyrtodon	S1	G2G3	NBMUS79060
Tetraplodon urceolatus	alpine lemming moss	S1	G?	NBMUS7C040
Thamnobryum neckeroides		S1	G?	NBMUS7D020
Thuidium philibertii		S1S2	G5	NBMUS7F0A0
Timmia norvegica		S2	G4?	NBMUS7G030
Timmia sibirica		S1	G?	NBMUS7G040
Tortella inclinata	bent screw moss	S2	G4G5	NBMUS7K050
Tortula bartramii		S1	G2G4	NBMUS7L040
Tortula caninervis		S1	G?	NBMUS7L0U0
Tortula subulata		S1	G?	NBMUS7L0T0
Trichodon cylindricus	narrow-fruited fork moss	S1	G4G5	NBMUS7N020
Tritomaria exsecta	liverwort	S1	G5	NBHEP3C010
Tritomaria polita	liverwort	S2	G4	NBHEP3C040
Tritomaria scitula	liverwort	S2S3	G4	NBHEP3C060
Ulota curvifolia		S1	G3G5	NBMUS7T030
Voitia nivalis	hidden kettle moss	S1	G4	NBMUS7W020
Warnstorfia pseudostraminea	brown moss	S1	G2G3	NBMUS88080
Warnstorfia tundrae	brown moss	S2	G?	NBMUS88070
Weissia controversa	green-cushioned weissia	S2	G5	NBMUS7X020
Zygodon viridissimus		S1	G5	NBMUS7Z050

Number of records:401. *Last Updated on 2001-02-21*

Watch List: Mosses, Liverworts and Hornworts

Scientific Name	Common Name	S Rank	GRank	Code
Brachythecium campestre		S3	G4G5Q	NBMUS0Z070
Oncophorus virens	green spur-fruited fork moss	S3	G5	NBMUS52020
Paludella squarrosa		S3	G3G5	NBMUS58010
Rhytidiopsis robusta	pipecleaner moss	S3	G4	NBMUS6K010
Roellia roellii		S3	G4	NBMUS6M010
Sphagnum subsecundum	twisted bog moss	S3	G5	NBMUS6Z1A0

Number of records: 4. *Last Updated on 2001-02-21*

Mosses, Liverworts and Hornworts Reported for Alberta

(but without persuasive documentation)

Scientific Name	Common Name	SRank	GRank	Code
Anthoceros punctatus		SR	G5	NBANT01060
Fossombronia macounii		SR	G?	NBHEP190B0
Hygrobiella laxifolia	liverwort	SR	G3G4	NBHEP1L010
Porella navicularis	liverwort	SR	G5	NBHEP2Q030
Scapania americana		SR	G5	NBHEP33020
Scapania degenii	liverwort	SR	G4?	NBHEP330C0
Tritomaria heterophylla		SR	G3G4	NBHEP3C030
Brachythecium populeum		SR	G5	NBMUS0Z0M0
Bryum meesioides		SR	G3G4	NBMUS1A240
Desmatodon guepinii		SR	G3G5	NBMUS25050
Dicranella cerviculata	red-necked fork moss	SR	G?	NBMUS28010
Entodon brevisetus		SR	G4?	NBMUS2N010
Fontinalis antipyretica var oregonensis		SR	G5T?	NBMUS2X023
Grimmia pulvinata	grey-cushioned grimmia	SR	G4G5	NBMUS32120
Homomallium adnatum		SR	G3G5	NBMUS3M010
Kiaeria falcata	sickle-leaved fork moss	SR	G5	NBMUS41020
Pohlia columbica		SR	G?	NBMUS5S060
Pottia nevadensis		SR	G4	NBMUS5V060
Pottia truncata	little blunt-fruited beardless moss	SR	G3G5	NBMUS5V090
Racomitrium affine		SR	G?Q	NBMUS6B0B0
Rhytidiadelphus subpinnatus	pipecleaner moss	SR	G?	NBMUS6J040
Scleropodium cespitans		SR	G4	NBMUS6T020
Tortula princeps	common twisted moss	SR	G5?	NBMUS7L0M0
Odontoschisma elongata		SR		NBTEMP0013

Number of records: 24
Last Updated on 2001-02-21

Tracked Plant Locations (Occurrences)

Alberta Natural Heritage Information Centre
Alberta Environment
March 1, 2001.

The absence of dots (locations) in a particular area of this map does **not** indicate that occurrences do not exist in that area. The absence of records could indicate that very few inventories/surveys have been done in that part of the province.
This map is **not** intended to be used to determine whether or not an occurrence of a tracked element exists in a specific area of the province. Please contact the Alberta Natural Heritage Information Centre for site specific information.

RARE NATIVE PLANT REPORT FORM

Please enter all information available to you and attach a detailed sketch or map showing the location of the population.

SCIENTIFIC NAME: _____
COMMON NAME: _____
OBSERVER NAME, ADDRESS AND TELEPHONE NUMBER: _____

OBSERVATION DATE(S): _____
PHOTOGRAPH TAKEN: Y / N
SPECIMEN COLLECTED: Y / N **COLLECTION NUMBER:** _____
IF YES, NAME HERBARIUM WHERE DEPOSITED: _____

LOCATION INFORMATION:
SITE NAME: _____

TOPOGRAPHIC MAP NUMBER: _____
DIRECTIONS TO POPULATION (*include descriptions of landmarks and distances if possible*):

ELEVATION (*Please do not use elevation from GPS unit*): _____ ft/m (*circle one*)

(*Complete one of the following and accompany with map or sketch*)
UTM EASTING: _____ UTM NORTHING: _____ GRID ZONE: _____
NORTH AMERICAN DATUM: 27 / 83 (*circle one*)

LEGAL: TWP: _____ RGE: _____ W: ____ M SECTION: ____ LSD: _____

LATITUDE: _____ LONGITUDE: _____
Was the location determined using a GPS? Y / N

POPULATION INFORMATION (*include information on extent in cm^2/m^2 (circle one), number of individuals*):

PHENOLOGY (*based on average development phase of population--see over*):
____ vegetative; _____ reproductive (*E.G. V6. R7 for a species with leaves fully unfolded and in full bloom*)

SITE/HABITAT DESCRIPTION (*include information on habitat [alpine, aquatic, cliff, forest, grassland, peatland], plant communities / dominant species / associated species / other rare species / substrate / soils / phenology of dominant species*):

ASPECT: _____ SLOPE: _____ MOISTURE: _____
OWNERSHIP (*if known. Include name/address/phone number*): _____

CURRENT LAND USE: _____

HABITAT THREATS/MANAGEMENT CONCERNS: _____

Return to: *Alberta Natural Heritage Information Centre, 2nd Floor, 9820 106 Street, Edmonton, AB T5K 2J6 (780) 427-5209. Thank You.*

Phenology Codes (after Dierschke, 1972)

VEGETATIVE		*REPRODUCTIVE*
Deciduous Tree or Shrub	*Conifer*	
0 Closed Bud	0 Closed Bud	0 Without blossom buds
1 Buds with green tips	1 Swollen bud	1 Blossom buds recognizable
2 Green leaf out but not unfolded	2 Split bud	2 Blossom buds strongly swollen
3 Leaf unfolding up to 25%	3 Shoot capped	3 Shortly before flowering
4 Leaf unfolding up to 50%	4 Shoot elongate	4 Beginning flowering
5 Leaf unfolding up to 75%	5 Shoot full length, lighter green	5 In bloom up to 25%
6 Full leaf unfolding	6 Shoot mature, equally green	6 In bloom up to 50%
7 First leaves turned yellow		7 Full bloom
8 Leaf yellowing up to 50%		8 Fading
9 Leaf yellowing over 50%		9 Completely faded
10 Bare		10 Bearing green fruit
		11 Bearing ripe fruit
		12 Bearing overripe fruit
		13 Fruit or seed dispersal
Herbs		
0 Without shoots above ground		0 Without blossom buds
1 Shoots without unfolded leaves		1 Blossom buds recognizable
2 First leaf unfolds		2 Blossom buds strongly swollen
3 2 or 3 leaves unfolded		3 Shortly before flowering
4 Several leaves unfolded		4 Beginning bloom
5 Almost all leaves unfolded		5 Up to 25% in blossom
6 Plant fully developed		6 Up to 50% in blossom
7 Stem and/or first leaves fading		7 Full bloom
8 Yellowing up to 50%		8 Fading
9 Yellowing over 50%		9 Completely faded
10 Dead		10 Bearing green fruit
		11 Bearing ripe fruit
		12 Bearing overripe fruit
		13 Fruit or seed dispersal
Grasses		
0 Without shoots above ground		0 Without recognizable inflorescence
1 Shoots without unfolded leaves		1 Inflorescence recognizable, closed
2 First leaf unfolded		2 Inflorescence partly visible
3 2 or 3 leaves unfolded		3 Inflorescence fully visible, not unfolded
4 Beginning development of blades of grass		4 Inflorescence unfolded
5 Blades partly formed		5 First blooms pollenizing
6 Plant fully developed		6 Up to 50% pollenized
7 Blades and/or first leaves turning yellow		7 Full bloom
8 Yellowing up to 50%		8 Fading
9 Yellowing over 50%		9 Fully faded
10 Dead		10 Bearing fruit
		11 Fruit or seed dispersal
Ferns		
0 Without shoots above ground		0 sori absent
1 Rolled fronds above ground		1 sori green, forming
2 First frond unfolds		2 sori mature, darker, drier
3 2 or 3 fronds unfold		3 sori depressing, strobili forming in lycopodium
4 Several fronds unfolded		
5 Almost all fronds unfolded		
6 Plant fully developed		
7 First fronds fading		
8 Yellowing up to 50%		
9 Yellowing over 50%		
10 Dead		